

## TRANSPARENT INTERCHANGEABLE NETWORK (TIN)

### ABSTRACT OF THE INVENTION

5           Voice over Internet Protocol (VoIP) private network call rerouting or  
switching, substantially transparent to both the caller and the called party. IP private  
network calls (e.g., VoIP private network) are automatically switched over a Public  
Services Telephone Network (PSTN) such as an Integrated Services Digital Network  
(ISDN) as the need arises. Alternate routing may occur because of, for example,  
10   network congestion, network outages, or detected poor Quality of Service (QoS) in  
the private network. Routing is over existing customer PSTN trunks and a dedicated  
Direct Inward Dial (DID) number, unlisted, that serves all users at a distributed  
system. Calls that may be switched to the PSTN (ISDN) are correlated with call  
associated information, such as a private calling user number, name, classmarks,  
15   Dialled Number Identification Services (DNIS), user group. VoIP calls made  
between users appear as intranetwork calls regardless of whether they are  
intranetwork calls or alternately routed.